

FIG.1

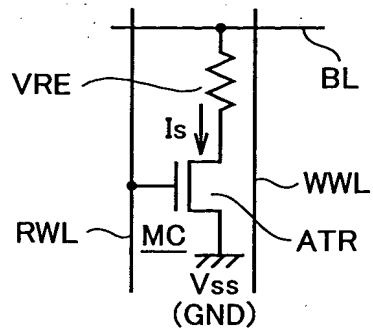


FIG.2

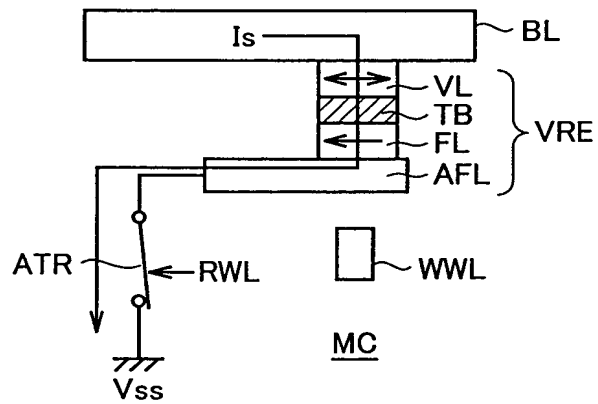


FIG.3

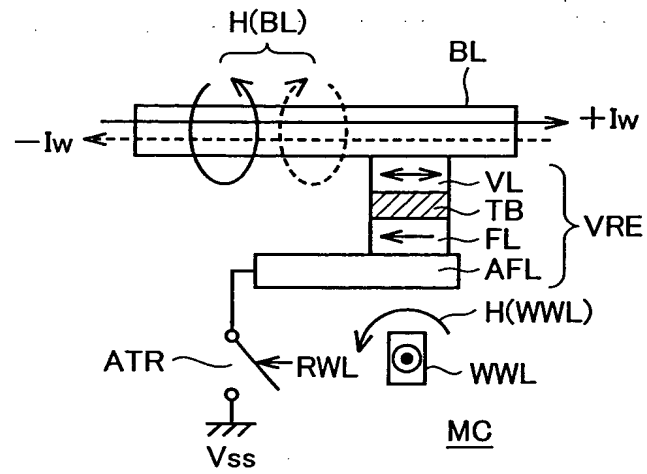


FIG.4

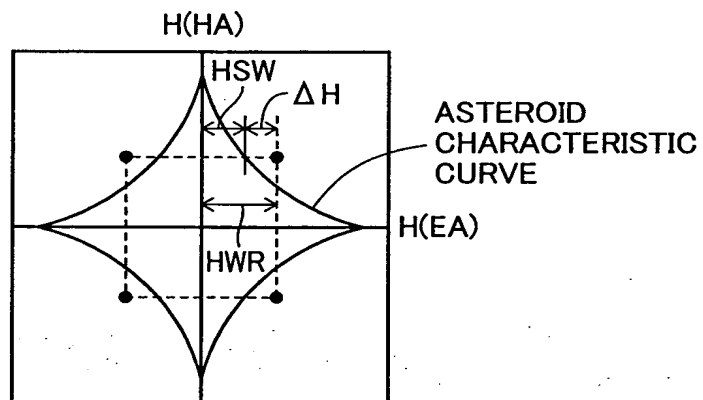


FIG.5

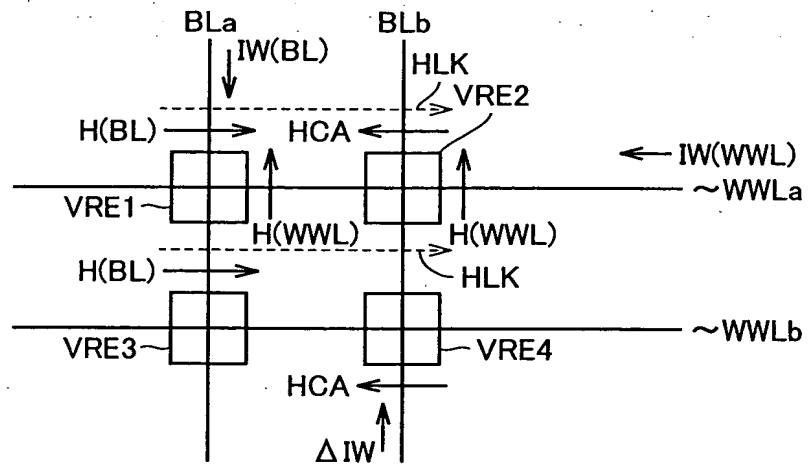


FIG.6

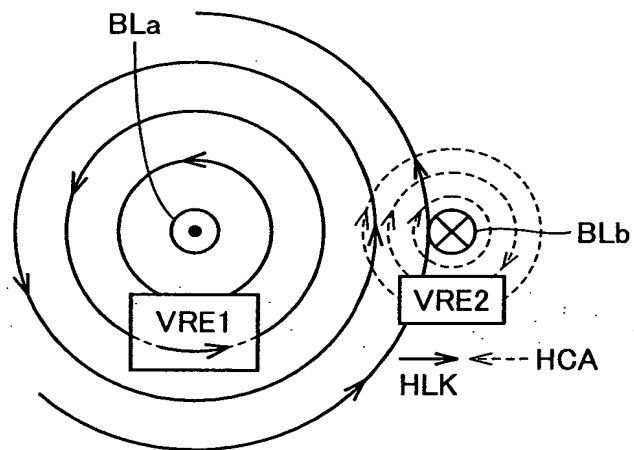


FIG.7

1

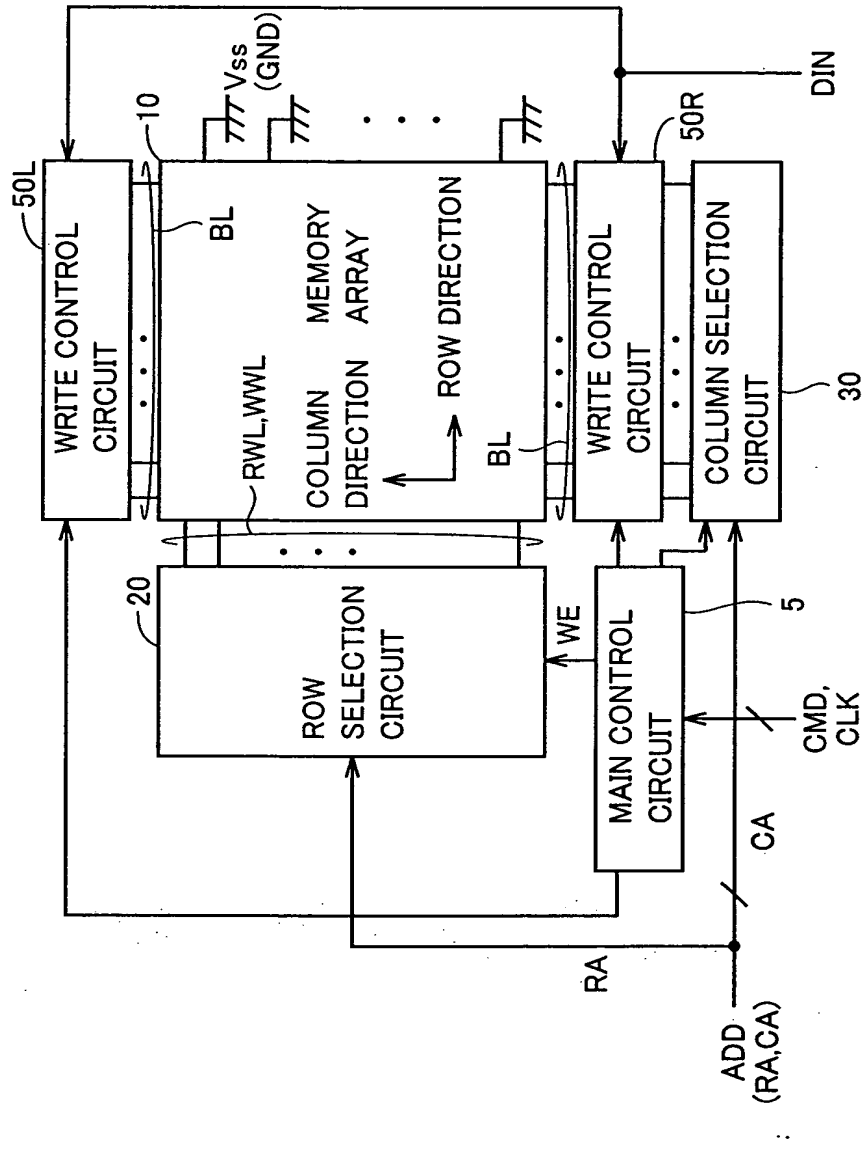


FIG.8

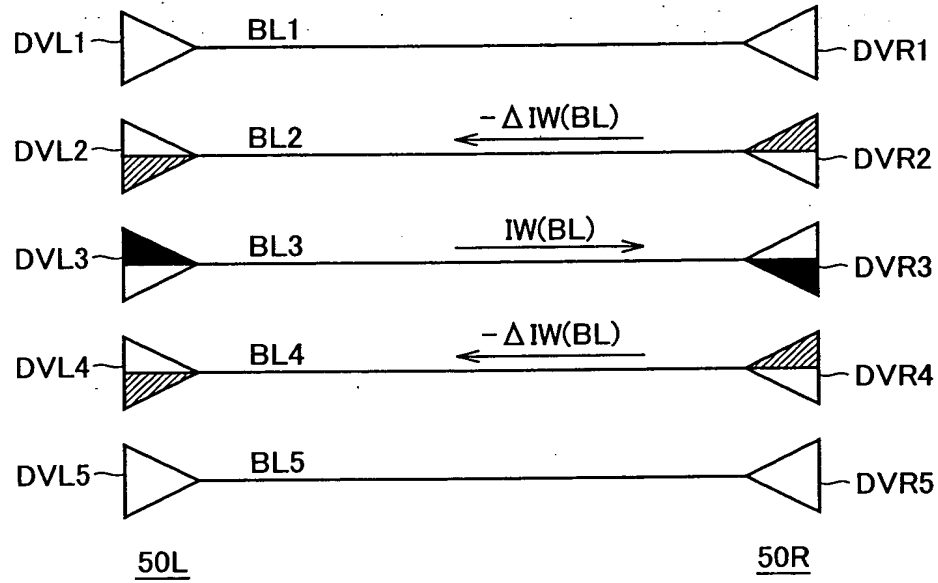


FIG.9

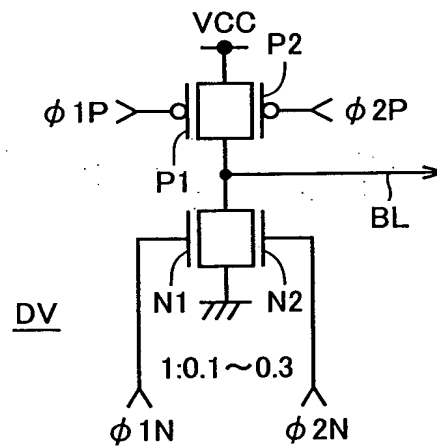


FIG.10

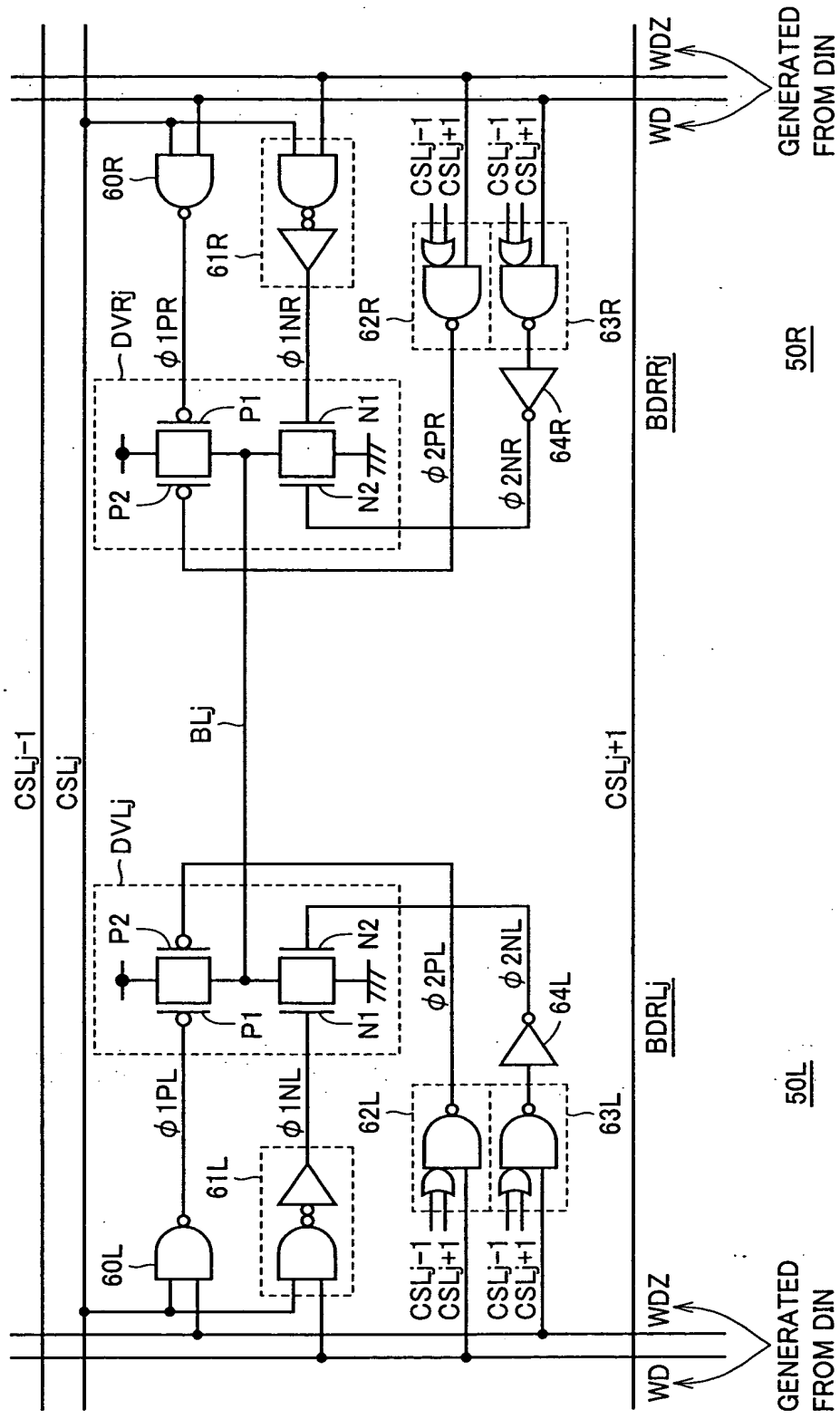


FIG.11

		WD=H (WRITING OF "0")		WD=L (WRITING OF "1")	
	NOT SELECTED	BL _j SELECTED	ADJACENT BL SELECTED	BL _j SELECTED	ADJACENT BL SELECTED
$\phi 1PL$	H	H	H	L	H
$\phi 1NL$	L	H	L	L	L
$\phi 2PL$	H	H	L	H	H
$\phi 2NL$	L	L	L	L	H
$\phi 1PR$	H	L	H	H	H
$\phi 1NR$	L	L	L	H	L
$\phi 2PR$	H	H	H	H	L
$\phi 2NR$	L	L	H	L	L
CURRENT DIRECTION OF BL _j	X	L←R	L→R	L→R	L←R

FIG.12

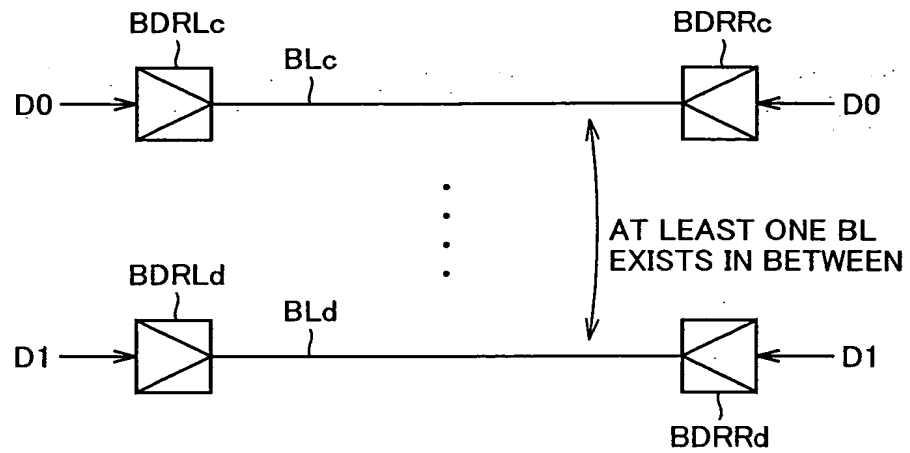


FIG.13

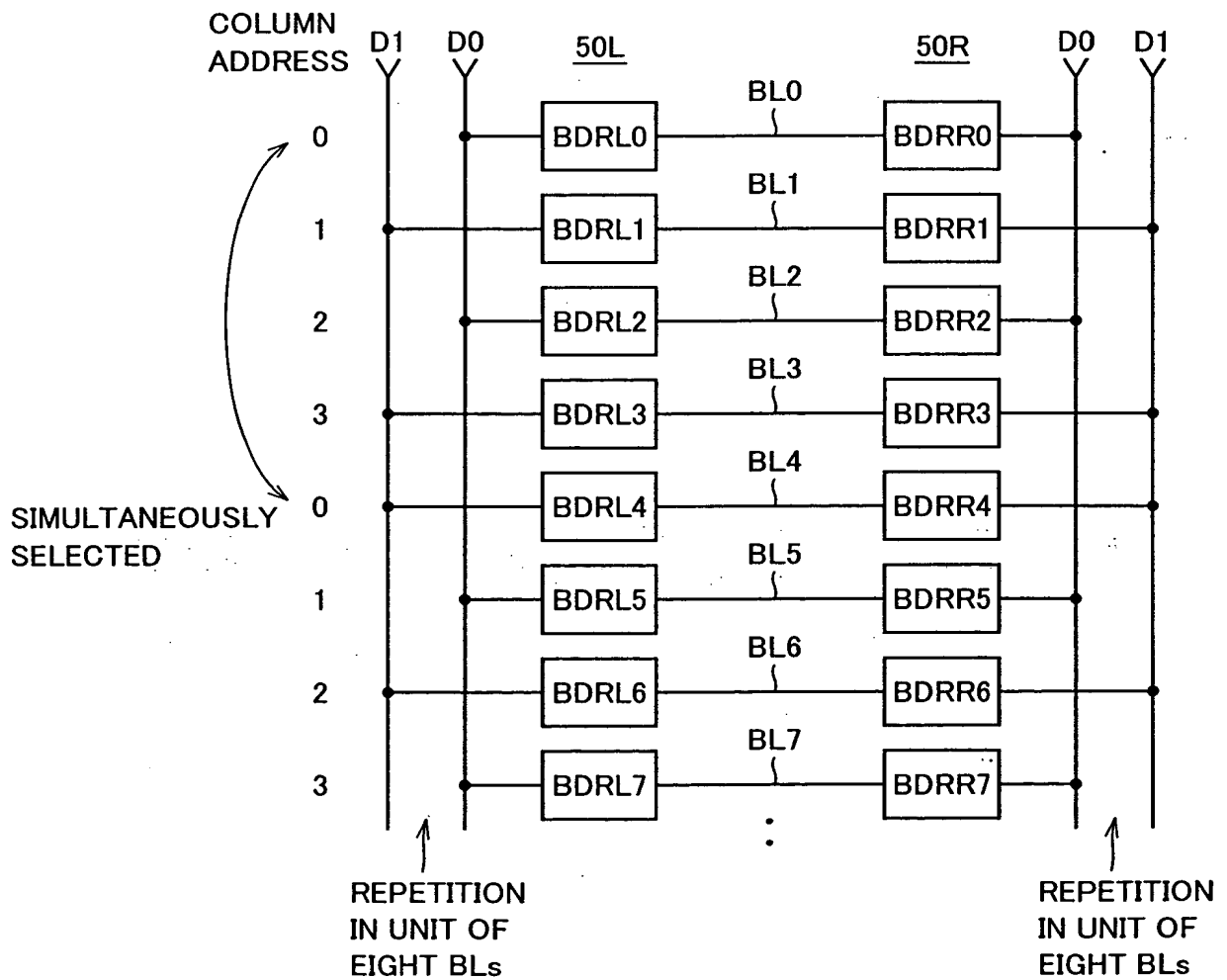


FIG.14

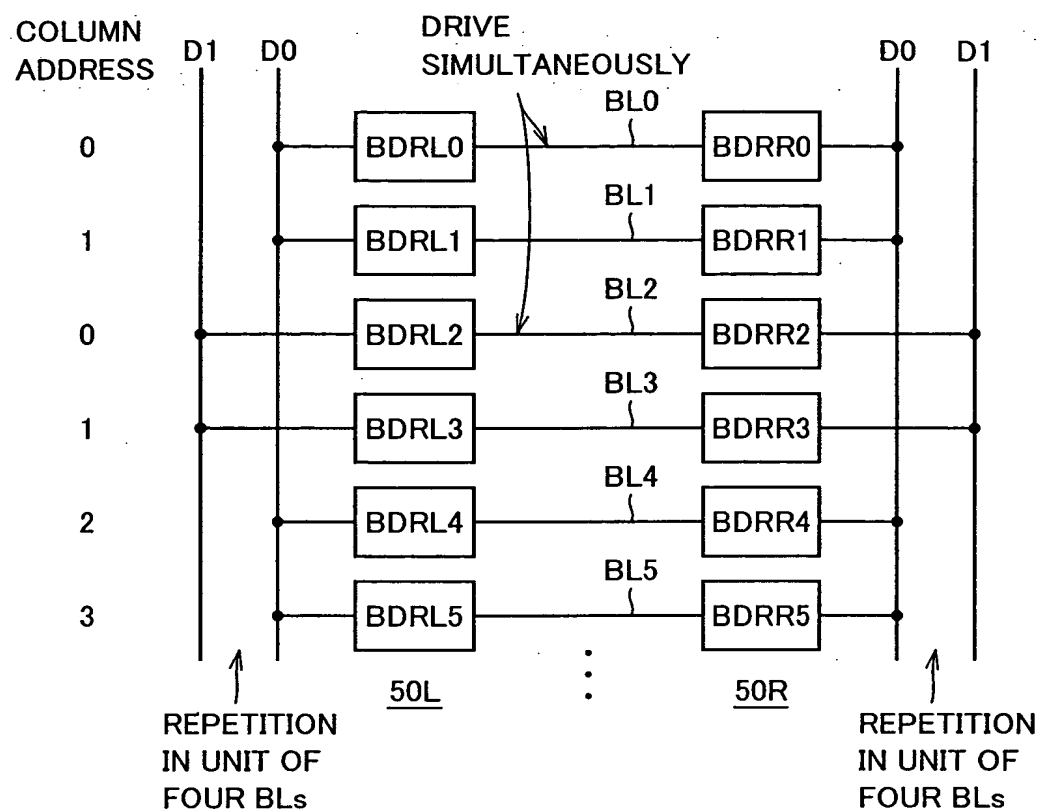


FIG.15

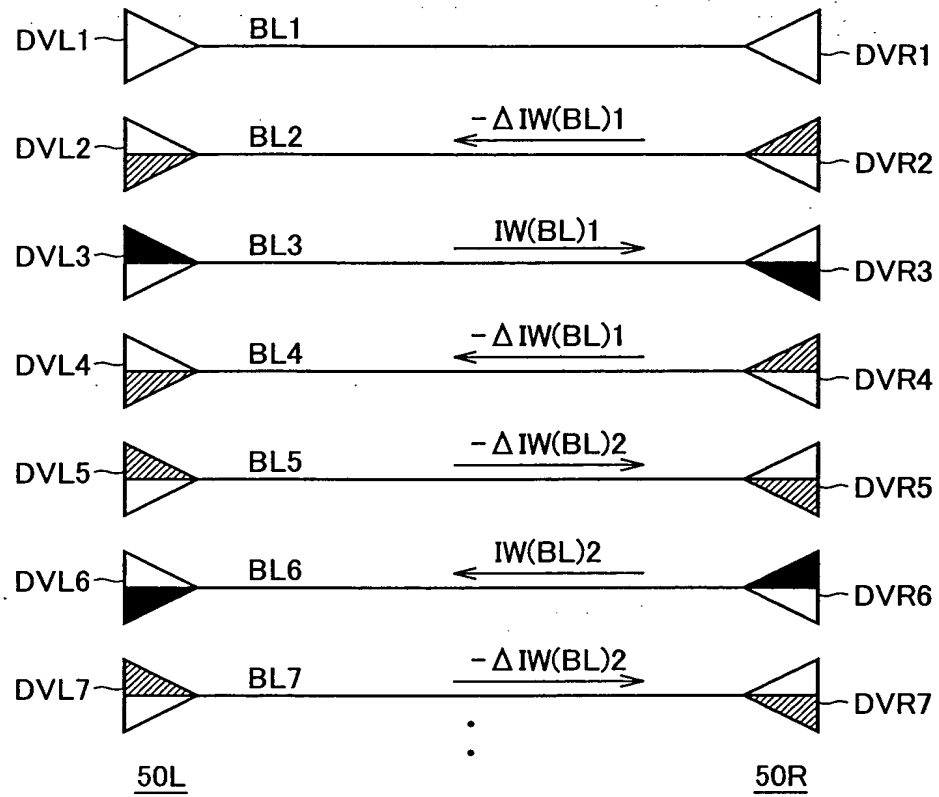


FIG.16

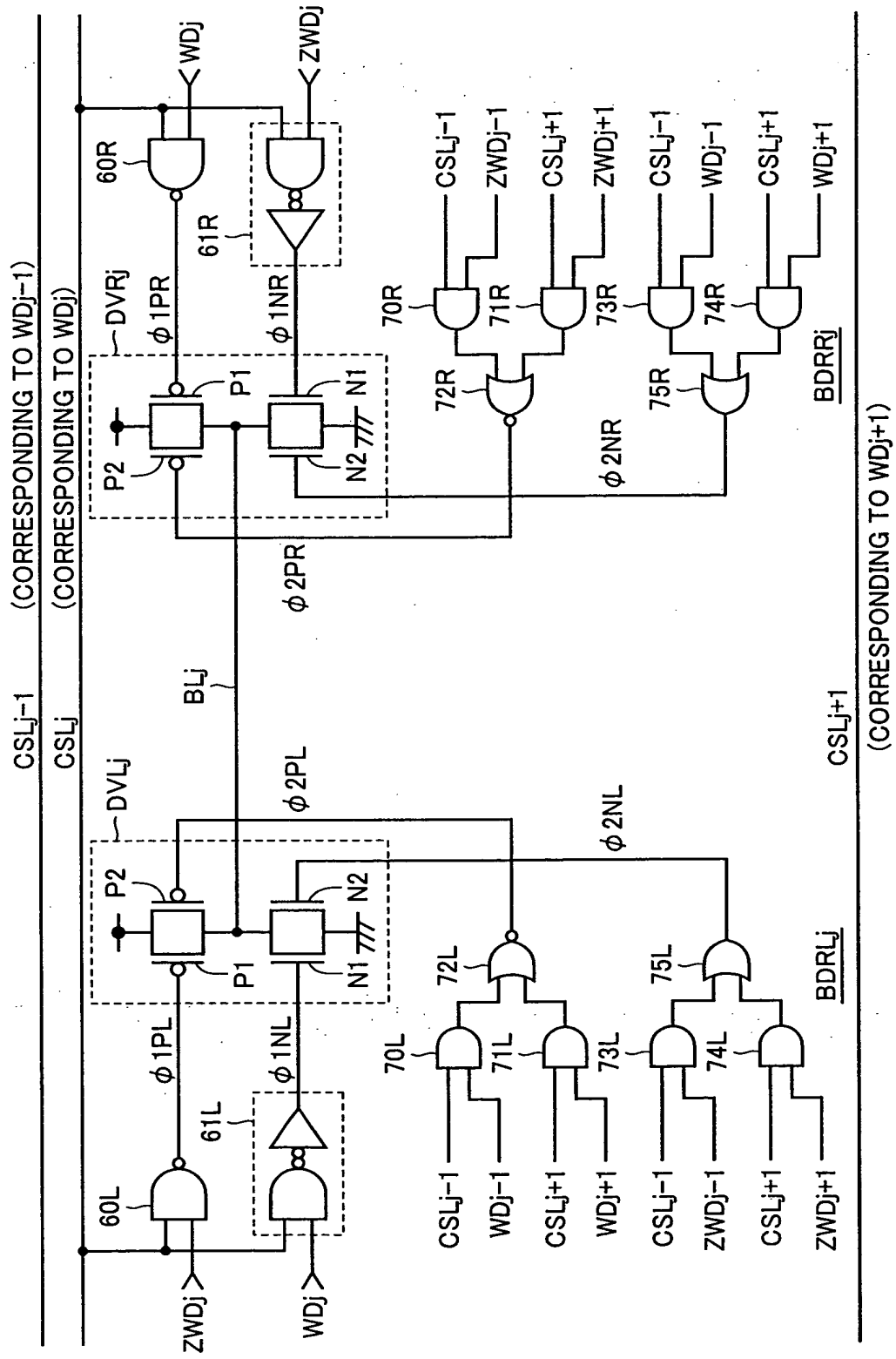


FIG.17

	NOT SELECTED	SELECTED CSL _j -1		SELECTED CSL _j +1	
		WD _j -1 =H	WD _j -1 =L	WD _j +1 =H	WD _j +1 =L
ϕ 2PL	H	L	H	L	H
ϕ 2NL	L	L	H	L	H
ϕ 2PR	H	H	L	H	L
ϕ 2NR	L	H	L	H	L
CURRENT DIRECTION OF BL _j	X	L→R	L←R	L→R	L←R

FIG.18

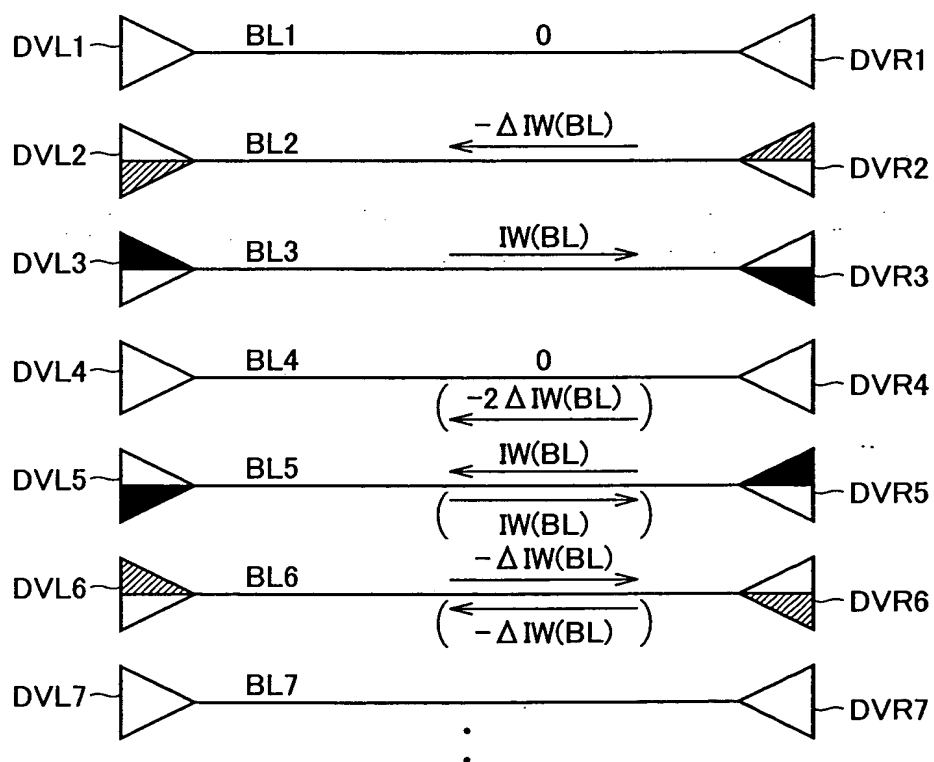


FIG.19

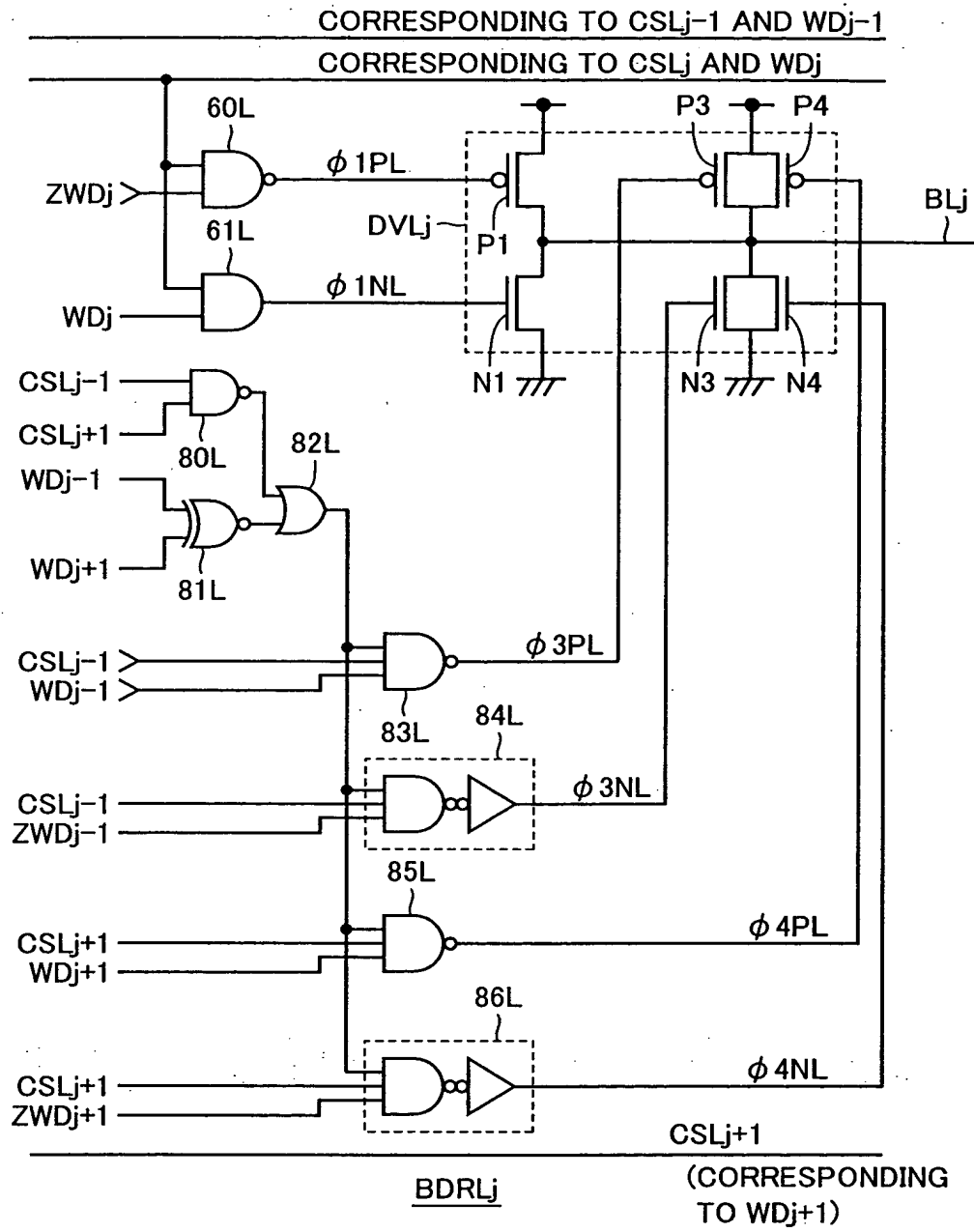


FIG.20

CSLj-1	CSLj+1	WDj-1	WDj+1	ϕ 3PL	ϕ 3NL	ϕ 4PL	ϕ 4NL	BLj CURRENT
L	L	-	-	H	L	H	L	0
L	H	-	H	H	L	L	L	$\Delta IW \rightarrow$
L	H	-	L	H	L	H	H	$\Delta IW \leftarrow$
H	L	L	-	H	H	H	L	$\Delta IW \leftarrow$
H	L	H	-	L	L	H	L	$\Delta IW \rightarrow$
H	H	L	L	H	H	H	H	$2 \cdot \Delta IW \leftarrow$
H	H	L	H	H	L	H	L	0
H	H	H	L	H	L	H	L	0
H	H	H	H	L	L	L	L	$2 \cdot \Delta IW \rightarrow$

FIG.21

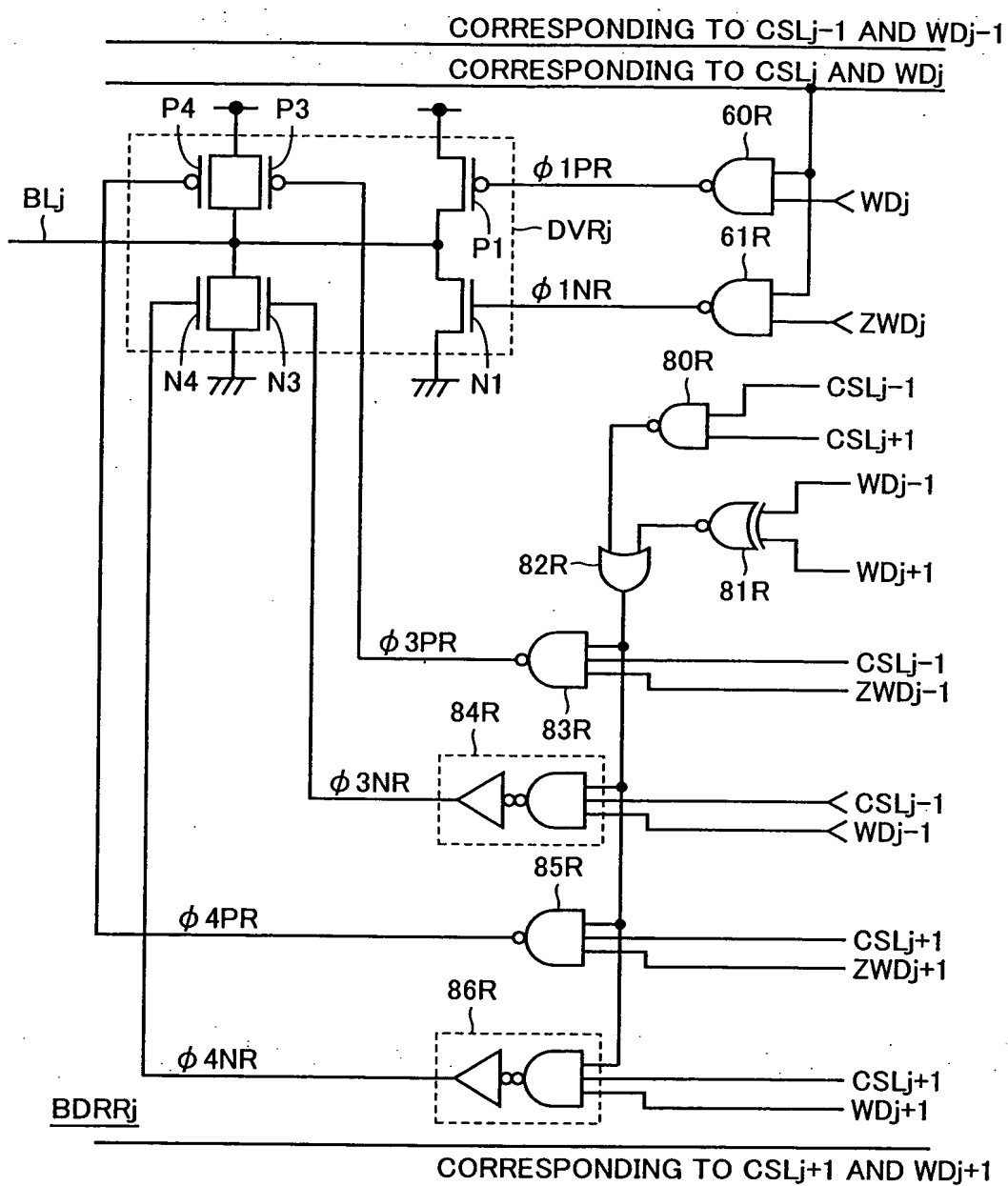


FIG.22

CSLj-1	CSLj+1	WDj-1	WDj+1	ϕ 3PR	ϕ 3NR	ϕ 4PR	ϕ 4NR	BLj CURRENT
L	L	-	-	H	L	H	L	0
L	H	-	H	H	L	H	H	$\Delta IW \rightarrow$
L	H	-	L	H	L	L	L	$\Delta IW \leftarrow$
H	L	L	-	L	L	H	L	$\Delta IW \leftarrow$
H	L	H	-	H	H	H	L	$\Delta IW \rightarrow$
H	H	L	L	L	L	L	L	$2 \cdot \Delta IW \leftarrow$
H	H	L	H	H	L	H	L	0
H	H	H	L	H	L	H	L	0
H	H	H	H	H	H	H	H	$2 \cdot \Delta IW \rightarrow$

FIG.23

